

Abstract Of The Disclosure

A rectifier for rectifying alternating current into direct current is described, in which a three-phase generator includes a three-phase stator winding. The phases of the stator winding are triggered via switching elements of a power circuit. The power circuit is controlled via a
5 control part, which includes a controller component. The rectifier includes a control part (control module) having control terminals and a power circuit (power module) controlled by the control module and optionally provided with a cooling device, in which all the power-conducting components are designed as power MOS components and integrated in a stacked construction.